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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Gerhard HERBIG

Serial No.: 10/018/759

Filed: December 18, 2001

Title: PHASE ERROR DETECTOR FOR A

QUADRATURE AMPLITUDE MODULATED (QAM) RECEIVER Attorney Docket No.: P/63035

Group Art Unit:

Examiner:

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**Technology Center 2100** 

Commissioner for Patents Washington, D.C. 20231

## INFORMATION DISCLOSURE STATEMENT

Dear Sir:

This Information Disclosure Statement is submitted:

X	under 37 CFR 1.97(b), or
	(Within three months of filing national application; or date of entry of international
	application; or before mailing date of first office action on the merits; whichever occurs last)
	under 37 CFR 1.97(c) together with either a:
	Statement under 37 CFR 1.97(e), or
	a \$180.00 fee under 37 CFR 1.17(p), or
	(After the CFR 1.97(b) time period, but before final action or notice of
	allowance, whichever occurs first)
	under 37 CFR 1.97(d) together with a:
	Statement under 37 CFR 1.97(e), and
	a \$180.00 fee set forth in 37 CFR 1.17(p).
	(Filed after final action or notice of allowance, whichever occurs first, but
	before payment of the issue fee)

X Applicant(s) submit herewith Form PTO 1449-Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

The relevance of the attached references is that this is the closest art of which Applicant is aware.

Applicant submits that the above references taken alone or in combination neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to this application is respectfully requested.

It is requested that the information disclosed herein be made of record in this application.

Respectfully submitted,

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail No. EL 337 912 114 US in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit: March 29, 2002

Typed Name: Alan ISRAEL

Alan Israel

Attorney/Agent for Applicant(s)

Reg. No. 27564

Date: March 29, 2002

Telephone No.: 212-697-3750

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l		DIO		Application Number	10/018,759	
INF	ORMATION	DISC	CLOSURE	Filing Date	December 18, 2001	
ST	ATEMENT B	Y AP	PLICANT	First Named Inventor	Gerhard HERBIG	
				Group Art Unit		
	(use as many shee	ts as nece	essary)	Examiner Name		
Sheet	1	of	2	Attorney Docket Number	P/63035	

	U.S. PATENT DOCUMENTS								
Examiner		U.S. Patent		Name of Patentee or Applicant	Date of Publication of cited Document	Pages, Columns, Lines, Where Relevant			
Initials*		Number	Kind Code <sup>2</sup> (if known)	of Cited Document	MM-DD-YYYY	Passages or Relevant Figures Appear			
		4,811,363		Hoffmann	03/07/1989				
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				FORE	IGN PATENT DOCUMENTS	3		
Examiner	Cite No.1		Foreign Patent Docu	ıment	Name of Patentee or	Date of Publication of	Pages, Columns, Lines, Where Relevant	
Initials*		Office	e <sup>3</sup> Number <sup>4</sup>	Kind Code⁵ ( <i>if known</i> )	Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	Ţ <sup>6</sup>
			0 571 788 A2		European	05/04/1993		

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



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Subs	stitute for form 1449B/PTO			Complete if Known			
INF	ORMATION [	DISC	CLOSURE	Application Number	10/018,759		
	ATEMENT BY			Filing Date	December 18, 2001		
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			,	Group Art Unit			
	(use as many sheets	as nec	essary)	Examiner Name			
Sheet	2	of	2	Attorney Docket Number	P/63035		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²				
		Hoffmann, M. H. W., "A New Carrier Regeneration Scheme for QAM Signals", PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON CIRCUITS AND SYSTEMS, June 7, 1988, pp. 599-602.					
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Examiner Signature	Date Considered	:
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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.